BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to Roads and Drains at Thanisadnra ICICI Bank Surrounding area raods in ward no. 06 Thanisasdra**

EMB

Job Code : 006-21-000014

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at Thanisadnra ICICI Bank Surrounding area raods in ward no. 06 Thanisasdra

Work Order No: BBMP/EE/BTP/WO/160/2020-21 dt: 10.12.2020

JOB NUMBER: 006-21-000014

Estimate Cost: 100.00 lakhs.

As No: AS/EE(BTP)/20/2020-21 Dt: 25.08.2020

Ts No :TS/ SE(YNK) /14/2020-21 dt : 26.08.2020

Name of Contractor : Sri. M.L Dhananjaya

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Cum								
	Qty Recorded as per Premeasurement Page No. is						**1015.52**	**217.96**	**221343.00**
2	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No.								
A									
	Qty Recorded as per Premeasurement Page No. is						**312.90**	**5692.45**	**1781168.00**
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
A	**Drain bottom raft**								
a	**Left side cross roads**								
	Cross Road-4 W-1012	Cum	1	30.00	1.05	0.15	4.73		
			1	4.00	1.05	0.15	0.63		
	Cross Road-5 W -1008	Cum	1	30.00	0.90	0.15	4.05		
			1	9.50	0.90	0.15	1.28		
	Cross Road -7 W0994	Cum	1	30.00	0.90	0.15	4.05		
			1	5.00	0.90	0.15	0.68		
b	**Right side cross roads**								
	Cross Road -3	Cum	1	27.60	0.90	0.15	3.73		
	Cross Road-5	Cum	2	30.00	0.90	0.15	8.10		
			2	14.40	0.90	0.15	3.89		
c	SWD connecting drain	Cum	1	16.70	1.20	0.15	3.01		
d	**Main Road Right Side -(W 1429)**	Cum	1	30.00	1.25	0.15	5.63		
			1	13.70	1.25	0.15	2.57		
			1	30.00	1.25	0.15	5.63		

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			1	8.40	1.25	0.15	1.58	
			1	30.00	1.25	0.15	5.63	
			1	3.40	1.25	0.15	0.64	
e			1	29.20	1.25	0.15	5.48	
			1	23.50	1.25	0.15	4.41	
	Main Road Left Side - (W 1429)	Cum	1	30.00	1.25	0.15	5.63	
			1	30.00	1.25	0.15	5.63	
			1	30.00	1.25	0.15	5.63	
			1	30.00	1.25	0.15	5.63	
			1	30.00	1.25	0.15	5.63	
			1	30.00	1.25	0.15	5.63	
			1	14.00	1.25	0.15	2.63	
f	**1st cross road - R/s (W 1421)**	Cum	1	30.00	1.10	0.15	4.95	
			1	23.00	1.10	0.15	3.80	
g	**2nd cross road - R/s (W 1411)**	cum	1	30.00	1.10	0.15	4.95	
			1	30.00	1.10	0.15	4.95	
h	**cross road - R/s (W 1401)**	cum	1	30.00	1.10	0.15	4.95	
			1	18.00	1.10	0.15	2.97	
	Drain Side Walls							
a	**Left side cross roads**							
	Cross Road-4 W-1012	Cum	2	30.00	0.15	0.75	6.75	
			2	4.00	0.15	0.75	0.90	
	Cross Road-5 W -1008	Cum	2	30.00	0.15	0.60	5.40	
			2	9.50	0.15	0.60	1.71	
	Cross Road -7 W0994	Cum	2	30.00	0.15	0.60	5.40	
			2	5.00	0.15	0.60	0.60	
b	**Right side cross roads**							
	Cross Road -3	Cum	2	27.60	0.15	0.60	4.97	
	Cross Road-5	Cum	4	30.00	0.15	0.60	10.80	
			4	14.40	0.15	0.60	5.18	
	SWD connecting drain	Cum	2	16.70	0.15	0.60	3.01	
	Main Road Right Side -(W 1429)	Cum	2	30.00	0.15	0.60	5.40	
c			2	13.70	0.15	1.20	4.93	
			2	30.00	0.15	0.75	6.75	
			2	8.40	0.15	0.75	1.89	
			2	30.00	0.15	0.75	6.75	
			2	3.40	0.15	0.75	0.765	
			2	29.20	0.15	0.75	6.57	
			2	23.50	0.15	0.75	5.2875	
	Main Road Left Side - (W 1429)	Cum	2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
			2	14.00	0.15	0.75	3.15	
	1st cross road - R/s (W 1421)	Cum	2	30.00	0.15	0.75	6.75	
			2	23.00	0.15	0.75	5.18	
f	**2nd cross road - R/s (W 1411)**	cum	2	30.00	0.15	0.75	6.75	
			2	30.00	0.15	0.75	6.75	
g	**cross road - R/s (W 1401)**	cum	2	30.00	0.15	0.75	6.75	
			2	18.00	0.15	0.75	4.05	
	Culverts							

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	Bottom Raft								
	Cd1								
	Cd2	Cum	1	6.20	2.10	0.20	2.60		
	Cd3		1	7.00	2.10	0.20	2.94		
	Cd4		1	7.60	2.10	0.20	3.19		
	Cd5		1	5.50	2.10	0.20	2.31		
	Cd6		1	6.90	2.10	0.20	2.90		
	CD7		1	6.20	2.10	0.20	2.60		
	Side Walls		1	9.00	2.10	0.20	3.78		
		Cum	2	6.20	0.35	0.75	3.26		
			2	7.00	0.35	0.75	3.68		
			2	7.60	0.35	0.90	4.79		
			2	5.50	0.35	0.90	3.47		
			2	6.90	0.35	0.75	3.62		
			2	6.20	0.35	0.75	3.26		
	Ramp Cd		2	9.00	0.35	0.75	4.73		
			2	6.20	0.30	0.15	0.56		
			2	7.00	0.30	0.15	0.63		
			2	7.60	0.30	0.15	0.68		
			2	5.50	0.30	0.15	0.50		
			2	6.90	0.30	0.15	0.62		
			2	6.20	0.30	0.15	0.56		
	last road		1	7.50	4.30	0.15	4.84		
	Total					Total Qty	**347.04**		
						Ltd to	**347.06**	**7423.00**	**2576226.00**

c/f FC

10/3/2021

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ-
ಬೈಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

10.03.2021
Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
Ward No. 06
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೈಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

10/3/2021
Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬೈಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
Byatarayanapura Sub Division
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600 & 2200 Specification No. Pg No.229 Item No.28.8.2								
		Tonne							
	Qty Recorded as per Premeasurement Page No. is						**21.57**	**68292.74**	**1473074.00**
5	Providing and Fixing **pre cast covering Slab made out** of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
a	**Left side cross roads**								
	Cross Road-4 W-1012	Cum	1	30.00	0.60		18.00		
			1	4.00	0.60		2.40		
	Cross Road-5 W -1008	Cum	1	30.00	0.60		18.00		
			1	9.50	0.60		5.70		
	Cross Road -7 W0994	Cum	1	30.00	0.60		18.00		
			1	5.00	0.60		3.00		
b	**Right side cross roads**								
	Cross Road -3	Cum	1	27.60	0.75		20.70		

c/f FC

15/3/2021

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ-
ಬೈಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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	Cross Road-5	Cum	2	30.00	0.60		36.00		
			2	14.40	0.60		17.28		
c	SWD connecting drain	Cum	1	16.70	0.90		15.03		
d	**Main Road Right Side -(W 1429)**	Cum	1	30.00	0.90		27.00		
			1	13.70	0.90		12.33		
			1	30.00	0.90		27.00		
			1	8.40	0.90		7.56		
			1	30.00	0.90		27.00		
			1	3.40	0.90		3.06		
			1	29.20	0.90		26.28		
e			1	23.50	0.90		21.15		
	Main Road Left Side - (W 1429)	Cum	1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	14.00	0.90		12.60		
f	**1st cross road - R/s (W 1421)**	Cum	1	30.00	0.90		27.00		
			1	23.00	0.90		20.70		
g	**2nd cross road - R/s (W 1411)**	cum	1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
h	**cross road - R/s (W 1401)**	cum	1	30.00	0.90		27.00		
			1	18.00	0.90		16.20		
	Missing slabs		1	20.00	0.75		15.00		
					Total Qty		**639.99**		
					Ltd to		**638.94**	**2453.62**	**1567716.00**

15/3/2021

Assistant Engineer
Ward No. 06

15/3/2021

Assistant Executive Engineer
Byatarayanapura Sub Division

6	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift.transportation etc .complete.As per Engineer incharge								
	For culverts covering slabs CD1	Sqm	1	6.20	1.80		11.16		
	Cd2		1	7.00	1.80		12.60		
	Cd3		1	7.60	1.80		13.68		
	Cd4		1	5.50	1.80		9.90	15/3/2021	
	Cd5		1	6.90	1.80		12.42		
	Cd6		1	6.20	1.80		11.16		
	Cd7		1	9.00	1.50		13.50		
					Total Qty		**84.42**		
					Ltd to		**79.38**	**5686.00**	**451355.00**

15/3/21

Assistant Engineer
Ward No. 06

15/3/2021

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P., Bengaluru-24

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	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Qty Recorded as per Premeasurement Page No. is						**486.85**	**59.07**	**28758.00**
8	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Fatima Layout								
	Qty Recorded as per Premeasurement Page No. is						**1081.89**	**6.68**	**7227.00**
9	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No- 153)								
	Fatima Layout								
	Qty Recorded as per Premeasurement Page No. is						**164.96**	**2094.47**	**345504.00**
10	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Fatima Layout								
a	**Left side cross roads**								
	Cross Road -1 W 1024	Cum	1	15.00	2.60+2.30	0.15	5.51		
					2				
			1	14.40	2.3+2.4	0.15	5.08		
					2				
	Cross Road - 2 W 1020	Cum	1	15.00	3.1+3.1	0.15	6.98		
					2				
			1	17.80	3.1+3.05	0.15	8.21		
					2				
	Cross Road -4 W1012	Cum	1	15.00	3.60+3.05	0.15	7.48		
					2				
			1	15.00	3.05+2.40	0.15	6.41		

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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				2				
		1	9.00	2.4+3.0	0.15	3.65		
				2				
Cross Road -5 W 1008	Cum	1	15.00	2.75+3.50	0.15	7.03		
				2				
		1	15.00	3.50+3.50	0.15	7.88		
				2				
		1	10.80	3.50+3.60	0.15	5.75		
				2				
Cross Road -7 W0994	Cum	1	15.00	3.60+3.80	0.15	8.33		
				2				
		1	15.00	3.80+3.70	0.15	8.44		
				2				
		1	13.60	3.70+3.25	0.15	7.09		
				2				
b **Right side Cross roads**								
Cross Road 1 No Id	Cum	1	14.15	2.95+2.70	0.15	6.00		
				2				
Cross Road -2 W1026	Cum	1	15.00	2.50+2.10	0.15	5.18		
				2				
		1	10.80	2.10+1.65	0.15	3.04		
				2				
Cross Road -5 W 1014	Cum	1	15.00	4.0+3.40	0.15	8.33		
				2				
		1	15.00	3.40+3.50	0.15	7.76		
				2				
		1	14.40	3.50+3.70	0.15	7.78		
				2				
Cross Road -6 W 1004		1	15.00	2.75+3.50	0.15	7.03		
				2				
		1	15.00	3.50+3.50	0.15	7.88		
				2				
		1	10.80	3.0+3.60	0.15	5.35		
				2				
Cross Road -7 W 0996		1	15.00	4.30+4.30	0.15	9.87		
				2				
		1	18.35	4.30+4.30	0.15	12.07		
				2.00				
				Total Qty		**167.81**		
deduction								
manholes		14	0.785	0.81	0.15	**1.34**		
Receiver chambers		50	0.45	0.45	0.15	**1.52**		
				Total ded		**2.85**		
				Net		**164.96**	**5470.99**	**902495.00**
				Grand Total				**9354866.00**
				GST Charges (12% of estimated				**1122584.00**
				Total Amount				**10477450.00**

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
Ward No. 06
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Byatarayanapura Sub Division
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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